Department Chemistry

Subject Pinneys - Research

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Address Baylor University

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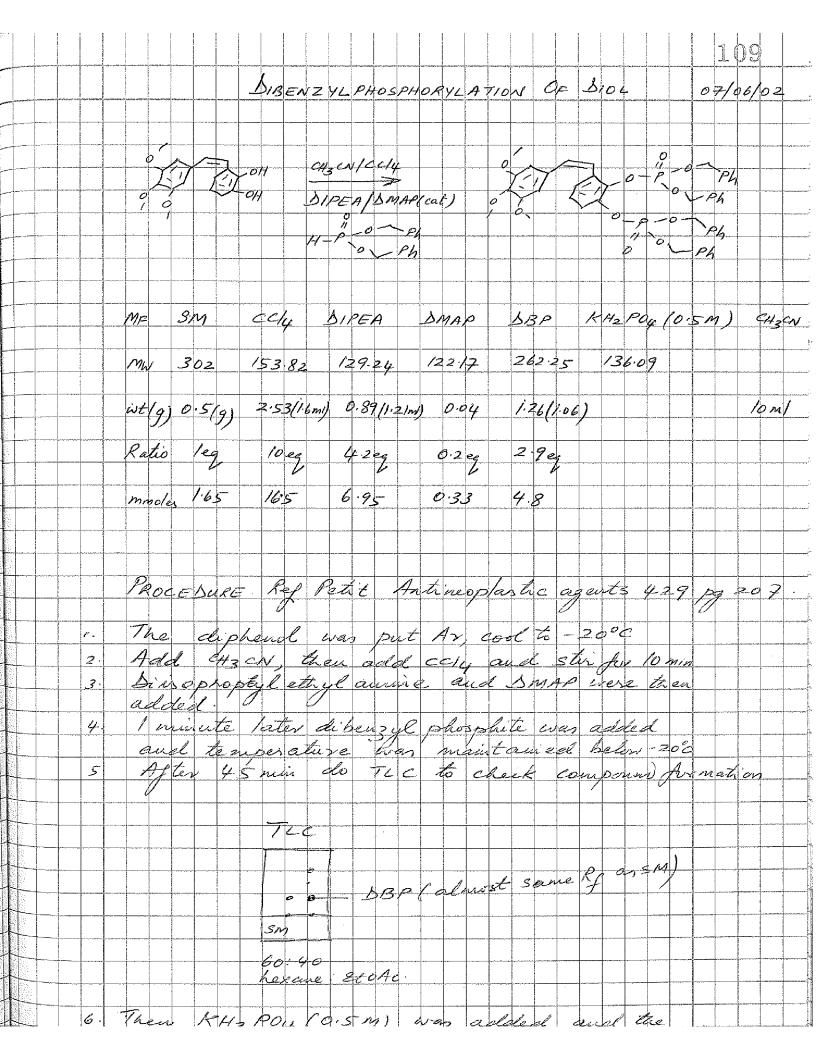
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108 Collect the lower organic layer Extract the agreem layer with CH2 4/2 thrice 10 The combined organic layers were dried with analydrown Naz Soy Filtered & rotaraped. COLUMN CHROMATOGRAPHY. 07/05/02 Did a column to collect purified diol. Used 70:30 hexane: 200Ac Wt of diol collected = 0.5 g. MMR H NMR PA-11-56 PA-11-57 13 C NMR Yield 1. = 0.5 = 1.66 mmoles 30232 1.66 ×100 = 43.40% 3.81



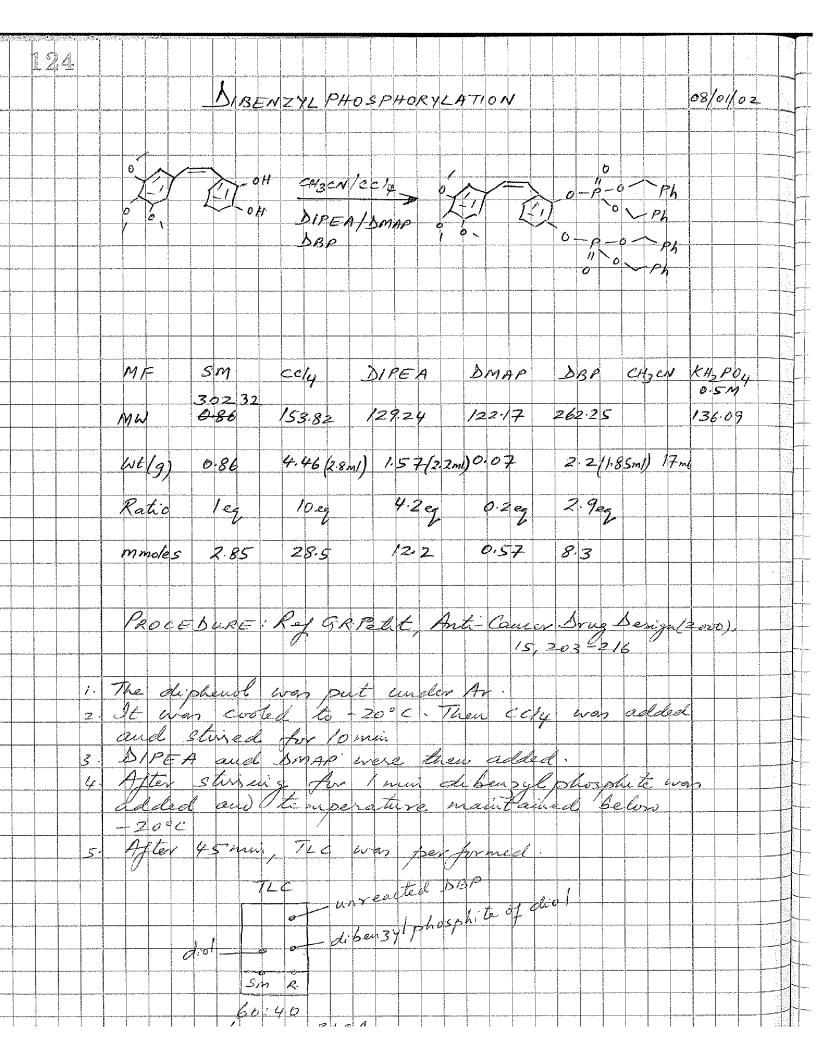
110 It was extracted with GEOAC, 4 times washed with saturated Nach and water and died with anh aw the It was rota vaped yellowish Brown my ture was separated by Coxum CHROMATOSRAPHY. Separated by Hash chromatography Then use 60: 40 hexane: Stote Colourien only liquid we = 0.7/g. PA- N- 58 NMR 3/P NMR PA-11-59 PA + 11-60 yield = 0.71 = 86 mmoles 822.77 0.86 ×100 = 52.29% 1.65

29 4eg 4eg 1% 4eg	Antineoplastic agents 429 pg	c. agents 429
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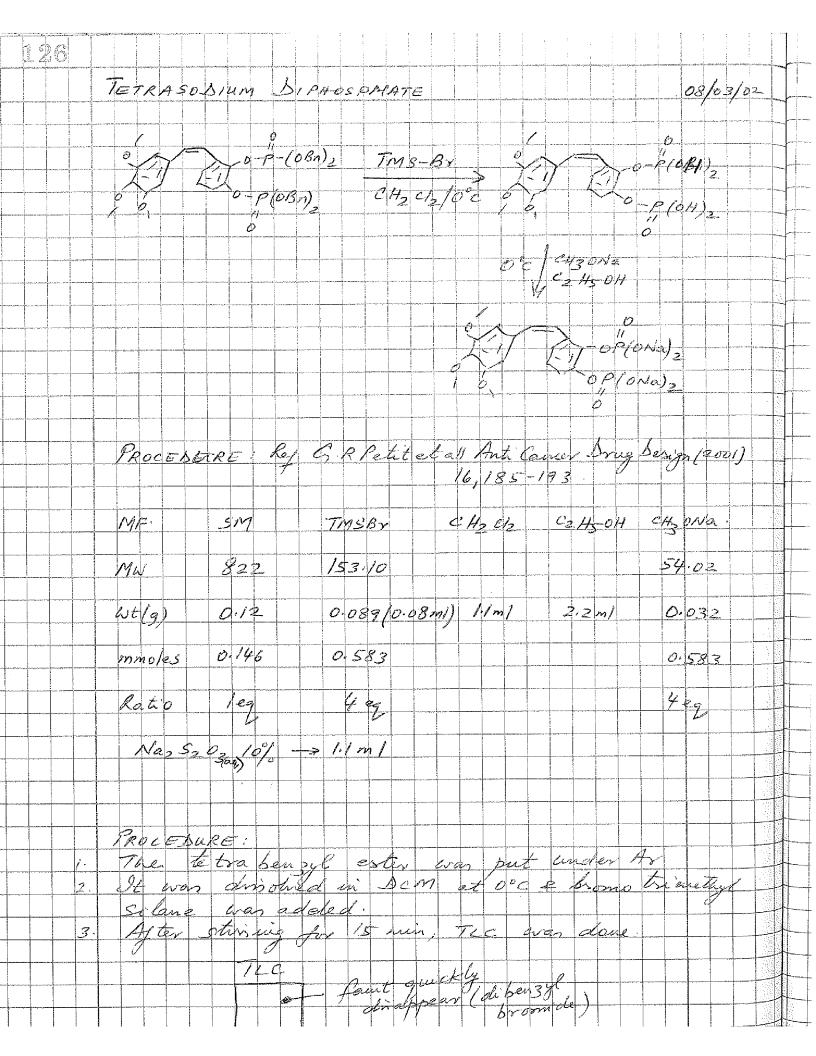
112 The mixture was dinolved in 420- CH26/2 The EA of layer was washed with 420 three The agreen layer was concert ated using The coude was died on vacuum overnight The John mixture ( looked like foam and was dark brown sh wi colour) was almo hed en ett 3014 then ext on a wan added and RECRYSTALLISATION 07/12/02 Triad recrystallizing using 420-Sthanel. H20 - methanol 450 - acetoce did not work. Separated 40mg using prep TLC (70:30 water Got 10 mg of the trans isomer Separateli & fraction by prepTLC SEPARATION USING C-18 COLUMN 07/15/02 Tried separation using CH3 DH: 420: CH3 CN System Zgnors 55: 10: 35: muig 6,8 column first run methanoi thro it (least The compound came out as a nuxture Tried separation on prep TLC. It was a

122 DEPROTECTION USING TBAF 07/30/01 TBAF/CHOCLE O TBAF IN IMTHE CH2 C/2 (dry) ME 500 30/vent 261.47 530.84 MW 7.5 eg Ratio 4.73 (18.1m1) 3.8375 18.1 mnoles 7.24 PROCEDURE compound was put under Ar and dinother in esse, It was cooled to +5°C address commen see bath. TBA = was added and The dome after 15 mans. 710 SM dio Her tin us al 50 min

120 70:30 hexane EtoAc. The reaction was quenched with water of extracted the agreen layer with CH2 Cl2 thruce The combined organic layers were object over Naz 504 anhydrown totaled and rataraped. The dark brown colour oily crule was purpled by column chromatography: COLUMN CHROMATOGRAPHY The compound was purified by flank column chromategraphy having hexale 2004c 60:40 to yield 2:05g of dio! H-NMR PA-11-81 yield 1 = 2.05 = 678 mmoles 302.32 6 78 × 100 = 93.65%. 724



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4. The reaction was quenched with 10% Mas 5,00 (ag) after 25 min trans / dark purple). RPTLC cis 120 CH3 CN. Water Isopropouvl 5. Isamerization had already taken place with a greater percentage to going to than and there was minor 6. The solven agreem layer was removed with a disposable pipette. It was extracted with eloke thrice. The combined organic layers were notaraped and then dried on the vacuum pump. It took very long to dry even after 12 hours, it wasn't looking very dry It was to en put under Ar, maintained at ore and dinohed in C2 450H. So him. Light yellow colons prespitate was obtained for It was triburated with etner turned clark brown Armstin of tran TIC Shaved greater 70:30 hater sopropand RECRYSTALLIZATION from water aretone attempted but

128 TETRA SOSIUM DIPHOSPHATE 08/05/02 0-P(OBn)2 TIMSBY CH2012 0 P(0Bn), CH3 01/a/ PROCEDURE: Ref G R. Petit et all Anti Cancer Drug Besign (2001) CH3 aNa SH50H TMSBY CH2 C/2 SME 54.02 153.10 1.801 0.9m1 0.026 Wt (9) 0.075/0.064)0.9m1 0.100 0.486 0.12 0.486 mmoles 449 40 Ratio PROCEDURE: Ref GR Petit et all Anti-Cancer Drug Besign (2001) a started solution of tetrahenzyl ester CH2 cl2 under Ar at occ - (-soc), bromo trinethylor/and was added. sting for 5 mis, The was done

photos force RPTLC RPTLC TLC quickly disappeared bromide
perhaps diber3yl bromide
is highly volatile 40 Isopropard 120: 1136W 60.40 Karaise. EtoHe. However the reaction was quenched with 1% Nas 5,000 w CH3 cook ( Note no water was used) only after 15 min in the RRTLE plate, book long to deletop. The Solution was notaraped using Tolivens a zeotrope & then elloch It The was performed after rotavapais off the solvent cis (light purple) trans / dark purple RP TLC. 70:30 Water: Isopropoud Perhaps the isomerisation took place after 5 mm.
The compound (check) was died light yellow
mixed with brown (minstard colour) on the vacuum
pump for 6 hours It dried and was like a foam. The dried crude was put under Ar, dinstred in CHOH at OC. Na OCH3 was quekly added and stired for 30 mis The tompound was taken out, it was white in whom It was triturated with

130 08/07/02 TETRASOSIUM DIPHOSPHATE OP(OBA)2 CH2 42/-78°C 6 OP (OBn) -780 CH30Na/ 1/2 5,03 (19) TMSBX C43 C/3 CH 20 Na C2/+50H MI 5/1 822 153% 54.02 MUS 0.035 2401 12 m/ 0.098 0.13 1.2 ml 0.64 0.64 400 Ratio PROCEDURE Ref GR Petit et all, Antineoplantic agenti 460 And Cancer Drug Design (2001) 16, 185-193 The tetra benzyl exter was Temp was = \$800. It was dissolved in Decaloro-TMSB. wen a doled & temp in au tamed at 78°C After sturing for 5 min. 1.5 min 30 mm. 45 in 7c4(5mm)

131 Te C 30 min) Darker bromide TLC (15min) TL4-(95 min) al Barker -famt 500 517 60.40 6040 hexan i Eto Ac Lecane EtoAc dexare ExOAz After stirring for 45 min the Ixon was quenched mita 16% Man 3203 m, and stone) for 5 more min. It looked tite a crany ppt mixed with an oxy layer. The creamy layer was remarked wring a chiposable 6. perpette at a tit It was extracted white EtOAc \* Lice The combined organic layers here rotataped Lenally a little land ne loven added and Rotaloped. A colonier oily liquel phosphoric and a witer me diate was obtained which was obied 8on the vacuum pump. RPTLE dark grey \$ purple 70130 Liter CH36N